

Plus
Search

09/928049

09928049_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09928049 on June 07, 2004

27 455/326 (19 OR, 8 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or
circuitry
455/325 ...Including distributed electrical parameter
structure
455/326With balanced mixer

19 455/333 (5 OR, 14 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or
circuitry
455/333 ...Transistor or integrated circuit

17 455/330 (3 OR, 14 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or
circuitry
455/325 ...Including distributed electrical parameter
structure
455/330With nonlinear impedance (e.g., diode)

13 333/26 (0 OR, 13 XR)
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
333/24R COUPLING NETWORKS
333/25 .Balanced to unbalanced circuits
333/26 ..Having long line elements

11 455/327 (8 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or

```

                                09928049_CLSTITLES
                                circuitry
455/325      ...Including distributed electrical parameter
                                structure
455/326      ....With balanced mixer
455/327      .....Stripline

7  327/113      (1 OR, 6 XR)
    Class      327 :  MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
                                DEVICES, CIRCUITS, AND SYSTEMS
327/100      SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113      .Frequency or repetition rate conversion or
                                control

6  333/25      (1 OR, 5 XR)
    Class      333 :  WAVE TRANSMISSION LINES AND NETWORKS
333/24R      COUPLING NETWORKS
333/25      .Balanced to unbalanced circuits

5  455/323      (2 OR, 3 XR)
    Class      455 :  TELECOMMUNICATIONS
455/130      RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                                CONVERTER
455/313      .Frequency modifying or conversion
455/323      ..Particular frequency conversion structure or
                                circuitry

4  333/119      (0 OR, 4 XR)
    Class      333 :  WAVE TRANSMISSION LINES AND NETWORKS
333/1        PLURAL CHANNEL SYSTEMS
333/100      .Having branched circuits
333/117      ..Including hybrid-type network
333/118      ...Having lumped parameters or impedances
333/119      ....Using transformer coil

4  455/318      (0 OR, 4 XR)
    Class      455 :  TELECOMMUNICATIONS
455/130      RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                                CONVERTER
455/313      .Frequency modifying or conversion
455/318      ..With specified local oscillator structure or
                                coupling

3  327/105      (1 OR, 2 XR)
    Class      327 :  MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
                                DEVICES, CIRCUITS, AND SYSTEMS
327/100      SIGNAL CONVERTING, SHAPING, OR GENERATING
327/105      .Synthesizer

```

09928049_CLSTITLES

| | | | |
|---|---------|--------------|--|
| 3 | 327/355 | (0 OR, 3 XR) | |
| | Class | 327 | : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS |
| | 327/334 | | SPECIFIC INPUT TO OUTPUT FUNCTION |
| | 327/355 | | .Combining of plural signals |
| 2 | 327/116 | (0 OR, 2 XR) | |
| | Class | 327 | : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS |
| | 327/100 | | SIGNAL CONVERTING, SHAPING, OR GENERATING |
| | 327/113 | | .Frequency or repetition rate conversion or control |
| | 327/114 | | ..Of output rectangular waveform |
| | 327/116 | | ...Frequency multiplication |
| 2 | 330/277 | (0 OR, 2 XR) | |
| | Class | 330 | : AMPLIFIERS |
| | 330/250 | | WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G., TRANSISTOR) |
| | 330/277 | | .Including field effect transistor |
| 2 | 330/54 | (1 OR, 1 XR) | |
| | Class | 330 | : AMPLIFIERS |
| | 330/53 | | WITH DISTRIBUTED PARAMETER-TYPE COUPLING MEANS |
| | 330/54 | | .Distributed amplifier |
| 2 | 333/204 | (1 OR, 1 XR) | |
| | Class | 333 | : WAVE TRANSMISSION LINES AND NETWORKS |
| | 333/24R | | COUPLING NETWORKS |
| | 333/202 | | .Wave filters including long line elements |
| | 333/204 | | ..Stripline or microstrip |
| 2 | 333/245 | (0 OR, 2 XR) | |
| | Class | 333 | : WAVE TRANSMISSION LINES AND NETWORKS |
| | 333/245 | | LONG LINE ELEMENTS AND COMPONENTS |
| 2 | 333/24R | (0 OR, 2 XR) | |
| | Class | 333 | : WAVE TRANSMISSION LINES AND NETWORKS |
| | 333/24R | | COUPLING NETWORKS |
| 2 | 455/317 | (0 OR, 2 XR) | |
| | Class | 455 | : TELECOMMUNICATIONS |
| | 455/130 | | RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER |
| | 455/313 | | .Frequency modifying or conversion |
| | 455/317 | | ..Unwanted oscillation or radiation prevention |

09928049_CLSTITLES

```

2  455/319      (0 OR, 2 XR)
      Class 455 : TELECOMMUNICATIONS
      455/130  RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                  CONVERTER
      455/313  .Frequency modifying or conversion
      455/318  ..With specified local oscillator structure or
                  coupling
      455/319  ...With particular coupling

2  455/325      (0 OR, 2 XR)
      Class 455 : TELECOMMUNICATIONS
      455/130  RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                  CONVERTER
      455/313  .Frequency modifying or conversion
      455/323  ..Particular frequency conversion structure or
                  circuitry
      455/325  ...Including distributed electrical parameter
                  structure

2  455/328      (1 OR, 1 XR)
      Class 455 : TELECOMMUNICATIONS
      455/130  RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                  CONVERTER
      455/313  .Frequency modifying or conversion
      455/323  ..Particular frequency conversion structure or
                  circuitry
      455/325  ...Including distributed electrical parameter
                  structure
      455/326  ....With balanced mixer
      455/328  .....Hollow waveguide

2  455/331      (0 OR, 2 XR)
      Class 455 : TELECOMMUNICATIONS
      455/130  RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
                  CONVERTER
      455/313  .Frequency modifying or conversion
      455/323  ..Particular frequency conversion structure or
                  circuitry
      455/331  ...Crystal or electron tube diode

```

able 1
about 1
abstract 2
advantage 1
all 2
allow 1
allows 1
along 2
also 1
alternate 1
alternately 1
amount 3
an 21
and 29
another 5
any 2
application 1
applied 1
appreciate 1
are 9
arm 1
art 8
as 6
at 7
attenuated 2
away 1
background 1
balance 1
balanced 16
balun 17
bandwidths 1
based 1
basic 1
basis 1
be 8
been 2
being 1
belong 1
better 1
between 3
both 2
but 3
by 5
called 2
can 3
capable 1
capacitance 1
capacitor 1

carrying 1
categories 1
cause 1
causes 1
central 2
changing 1
characteristics 1
circuit 7
circuits 2
claimed 1
claims 1
class 6
classification 1
combination 1
common 1
commutated 1
complex 1
components 1
conception 1
conducting 1
conduction 1
configuration 1
connected 2
connection 1
connections 1
consists 2
converts 1
core 2
corresponding 1
coupled 16
current 1
cycle 1
dbm 4
decreases 1
define 1
degree 1
described 1
description 1
design 3
designed 1
designing 1
designs 1
devices 1
difference 2
different 1
diode 13
diodes 12
direction 1

disclosed 1
disclosure 1
divided 1
dl 2
does 1
double 20
dr 3
dri 1
drive 4
driven 2
driving 1
due 2
during 2
each 6
eight 2
elements 1
ended 1
essentially 1
examination 1
exhibit 1
exists 1
extend 1
feature 4
features 1
feed 1
ferrite 2
field 1
figure 5
first 11
flux 1
follows 1
for 6
four 4
frequency 25
from 5
further 3
general 2
generates 1
ground 1
half 3
has 12
have 5
having 1
herein 1
high 7
hybrid 2
if 15
ii 3

iii 1
improved 2
in 18
includes 2
increased 1
increases 1
inductance 1
input 12
insensitive 1
intended 2
intermediate 10
intermodulation 1
into 1
invention 12
iowto 1
is 47
isolating 1
isolation 12
it 5
its 1
iv 1
junction 1
known 1
large 3
leakage 2
level 2
levels 1
lf 1
limiting 1
limits 1
line 1
linearity 2
lo 13
local 14
low 1
many 1
may 2
measure 1
measured 4
methods 1
mixer 41
mixers 10
mixing 3
more 4
most 1
multiplying 1
nature 1
need 1

neither 2
network 1
node 2
nominally 1
non 2
not 3
now 2
null 1
object 1
obtained 1
of 47
on 1
one 3
operable 4
operating 1
operation 3
operational 1
opposite 1
or 8
oscillator 14
other 1
out 2
output 10
over 5
overlap 2
overlapping 2
pair 3
pairs 3
parallel 3
particular 1
particularly 1
path 1
per 1
phase 1
pointed 1
pointing 2
poor 1
port 19
ports 4
precision 2
present 1
principle 1
prior 7
produces 1
products 1
provide 8
provides 4
purposes 1

quad 1
radio 2
range 9
rate 1
rather 1
re 2
readily 1
receive 4
referring 2
relates 1
rely 1
require 1
requires 1
resides 1
resistance 1
resistive 1
resistor 2
response 1
result 1
reveals 1
reversal 1
rf 26
ring 6
rings 2
same 1
schottky 1
scope 1
se 1
second 11
seen 1
series 3
seriesconnected 1
sets 2
several 2
shown 4
signal 23
similar 1
since 1
single 2
skilled 1
small 1
star 1
state 1
stray 1
strong 1
structure 1
structures 1
sub 1

suffered 1
sufficiently 1
suited 1
summary 1
switched 1
switching 3
systems 1
termination 1
that 22
the 103
their 2
them 2
thereby 1
therefore 1
these 7
they 2
this 8
those 1
three 2
through 1
thus 1
ti 1
tim 1
time 1
to 46
together 1
topologies 1
topology 1
toward 1
tracing 1
transformer 1
transformers 4
transmission 2
turning 1
twice 1
two 6
type 6
types 1
typically 6
unbalance 1
unmet 1
upon 1
upper 1
use 1
used 1
uses 5
using 1
utilized 1

09928049_WDS

very 1
virtual 1
voltages 1
way 1
well 1
when 3
which 9
while 1
wide 4
wideband 1
will 2
windings 1
with 18
within 1

09928049_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 09928049 on June 07, 2004

Original Classifications

| | |
|----|---------|
| 19 | 455/326 |
| 8 | 455/327 |
| 5 | 455/333 |
| 3 | 455/330 |
| 2 | 455/323 |

Cross-Reference Classifications

| | |
|----|---------|
| 14 | 455/330 |
| 14 | 455/333 |
| 13 | 333/26 |
| 8 | 455/326 |
| 6 | 327/113 |
| 5 | 333/25 |
| 4 | 333/119 |
| 4 | 455/318 |
| 3 | 327/355 |
| 3 | 455/323 |
| 3 | 455/327 |
| 2 | 327/105 |
| 2 | 327/116 |
| 2 | 330/277 |
| 2 | 333/245 |
| 2 | 333/24R |
| 2 | 455/317 |
| 2 | 455/319 |
| 2 | 455/325 |
| 2 | 455/331 |

Combined Classifications

| | |
|----|---------|
| 27 | 455/326 |
| 19 | 455/333 |
| 17 | 455/330 |
| 13 | 333/26 |
| 11 | 455/327 |
| 7 | 327/113 |
| 6 | 333/25 |
| 5 | 455/323 |
| 4 | 333/119 |
| 4 | 455/318 |
| 3 | 327/105 |
| 3 | 327/355 |
| 2 | 327/116 |
| 2 | 330/277 |

09928049_CLS

2 330/54
2 333/204
2 333/245
2 333/24R
2 455/317
2 455/319
2 455/325
2 455/328
2 455/331

09928049_EAST

(5774801
4430758
5428839
4823400
5303418
5361050
5513390
5553319
5280648
5678226
5854974
6094570
4947062
4979233
5060298
5819169
6427069
4330868
4399562
4994755
6411801
5799248
5732345
5678225
5361409
5551074
5752181
4896374
5027163
5265266
6057714
3652941
6026287
5697092
5740528
6064872
5862466
5214796
4245355
4287603
5697088
6653885
4291415
5428840
4590613
6661306
6693499
4355421

09928049_EAST

4359781
4359782) .pn.

09928049_QUAL

5774801 99
4430758 99
5428839 99
4823400 99
5303418 99
5361050 99
5513390 99
5553319 99
5280648 99
5678226 99
5854974 99
6094570 99
4947062 99
4979233 99
5060298 99
5819169 99
6427069 99
4330868 92
4399562 92
4994755 92
6411801 92
5799248 92
5732345 92
5678225 92
5361409 92
5551074 92
5752181 92
4896374 92
5027163 92
5265266 92
6057714 92
3652941 92
6026287 92
5697092 92
5740528 91
6064872 91
5862466 91
5214796 91
4245355 91
4287603 91
5697088 91
6653885 91
4291415 85
5428840 85
4590613 85
6661306 85
6693499 85
4355421 84

09928049_QUAL

4359781 84
4359782 84

49

PLUS Search Results for S/N 09928049, Searched June 07, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5774801
4430758
5428839
4823400
5303418
5361050
5513390
5553319
5280648
5678226
5854974
6094570
4947062
4979233
5060298
5819169
6427069
4330868
4399562
4994755
6411801
5799248
5732345
5678225
5361409
5551074
5752181
4896374
5027163
5265266
6057714
3652941
6026287
5697092
5740528

09928049_LIST

6064872
5862466
5214796
4245355
4287603
5697088
6653885
4291415
5428840
4590613
6661306
6693499
4355421
4359781
4359782

09928049 WEST

(5774801 4430758 5428839 4823400 5303418 5361050 5513390 5553319 52806
48 5678226 5854974 6094570 4947062 4979233 5060298 5819169 6427069 433
0868 4399562 4994755 6411801 5799248 5732345 5678225 5361409 5551074 5
752181 4896374 5027163 5265266 6057714 3652941 6026287 5697092 5740528
6064872 5862466 5214796 4245355 4287603 5697088 6653885 4291415 54288
40 4590613 6661306 6693499 4355421 4359781 4359782).pn.